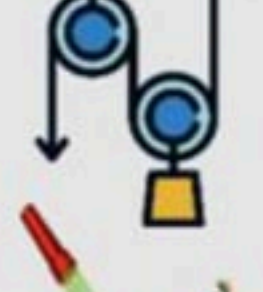
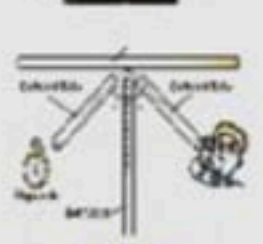


### Exams on first term

#### Exam (1)



1 Complete the following statements:

- a The human skeletal system consists of ..... and .....
- b The ..... is the measuring unit of mass whereas the ..... is the measuring unit of weight.
- c The ..... thermometer is used to measure the water temperature.

2 Put (✓) or (X) in front of the following statements and correct the false ones:

- a In the spinal cord, there are centers responsible for sensory and kinetic responses.
- b Mass is the force of earth's gravity to an object.
- c Heat transfers from a cold object to a hot object.

( )  
( )  
( )

3 Mention the function of:

- a Cartilages between the vertebrae of the backbone.
- b Nerves.
- c Mercury in the medical thermometer.
- d Plastic in the manufacture of the handles of cooking utensils.

4 Give reason for the following:

- a The rib cage surrounds both the heart and the lungs.
- b Your weight on the moon is less than your weight on the earth.

5 What happens if:

- a All the bones of the human body are without joints?
- b When you put your hand suddenly on a hot surface?
- c We get rid of soil bacteria?

6 Write the scientific term for the following statements:

- a A system responsible for integration and coordination between systems of the human body.
- b A device used to measure the mass of objects.
- c Materials that let heat flow through.
- d An organ responsible for the reflux actions of the body.





## Model Answer

## Answer Q1

a- axial skeleton – appendicular skeleton

b- kilogram - Newton

c- Celsius

## Answer Q2

a- (x) brain

b- (x) weight

c- (x) from hot object to cold object

## Answer Q3

a- they prevent friction between vertebrae

b- They deliver the sensory information and kinetic responses between central nervous system and all parts of the body

c-

1. It is a liquid metal that can be seen easily through the thermometer glass.

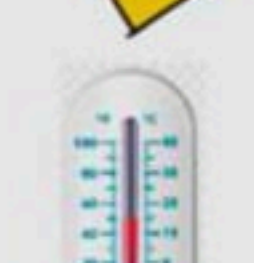
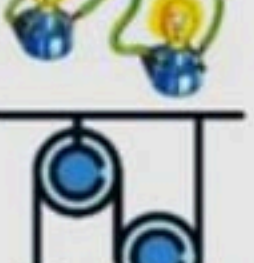
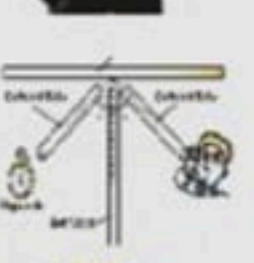
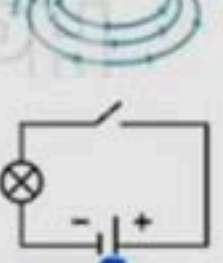
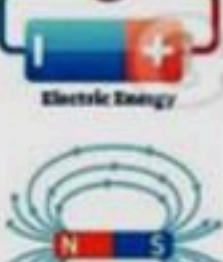
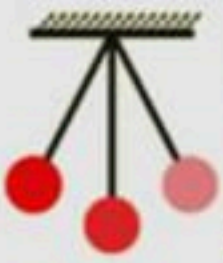
2. Mercury is a good conductor of heat.

3. Mercury is a regular expanding material which gives an accurate estimation.

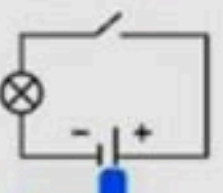
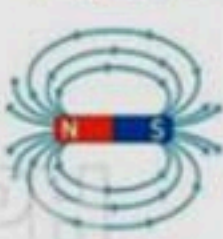
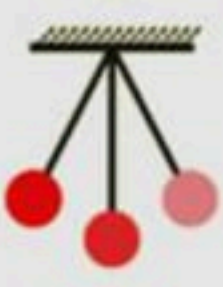
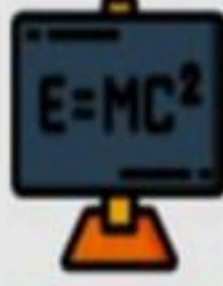
4. Mercury doesn't stick to the walls of the capillary tube.

5. Mercury remains liquid between  $-39^{\circ}\text{C}$  and  $357^{\circ}\text{C}$  and this gives a wide range to temperature measurement.

d- It doesn't let heat to flow through







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### Answer Q4

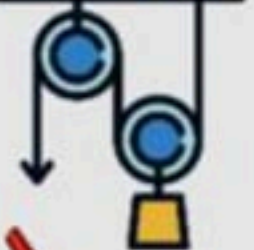
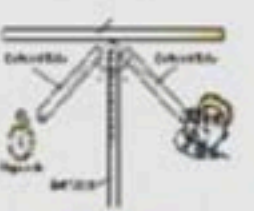
- a. To protect them
- b. Because the moon has a less mass and gravitational force than the Earth.

### Answer Q5

- a. To not move our bodies
- b. The withdrawal of the hand quickly due to reflex action made by spinal cord
- c. Leguminous plants such as peas and clover cannot get nitrogen to make proteins

### Answer Q6

- a- Nervous system
- b- Balance scale
- c- Good conductors of heat ( heat conductors)
- d- Spinal cord



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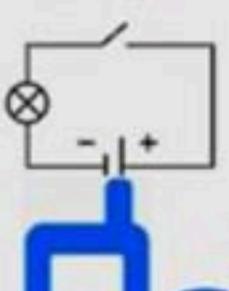
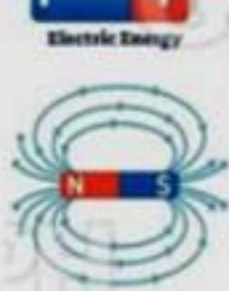


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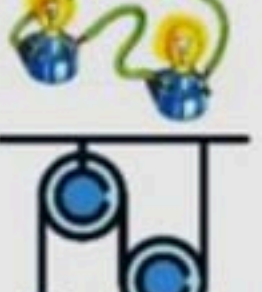
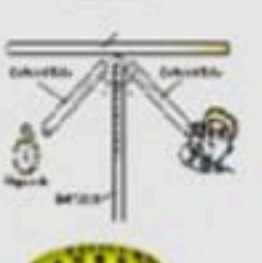


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## Exam (2)



## Question one:

Choose the correct answer:

- All the following from the components of central nervous system except:
  - Spinal nerves.
  - two cerebral hemispheres.
  - Spinal cord.
  - medulla oblongata.
- The weight of the body on earth surface 6 Newton ,so its weight on moon surface equals:
  - 1 kgm.
  - 1 Newton.
  - 6 kgm.
  - 6 newton.
- All the following from substances which are good conductors of heat except:
  - Aluminum and iron.
  - copper and iron.
  - Glass and wood.
  - Aluminum and copper.
- The gas which is used with acetylene in welding metals is ..... gas.
  - Oxygen
  - Nitrogen
  - hydrogen
  - carbon dioxide
- When a glowing magnesium ribbon is placed in a jar containing carbon dioxide, on the walls of the jar, the element formed is:
  - Magnesium.
  - Nitrogen.
  - Carbon.
  - Oxygen.

## Question two:

Explain the followings:

- There is a restriction in the capillary tube above mercury reservoir in clinical thermometer.
- The mercury gives wide range to measure the temperature.
- During oxygen preparation in the laboratory, the gas is collected by down displacement of water in the jar.
- Nitrogen gas is used in the atmosphere of the stores of explosive liquids.
- It is essential to heat healthy food which is rich in calcium and phosphorus.







### Question three:

A - What would happen in the following cases:

- There is no oxygen in the atmospheric air.
- When the shoulder joints becomes from the limited movement joint.
- Drinking big quantities of soft drink.



B - Mention one function for the following:

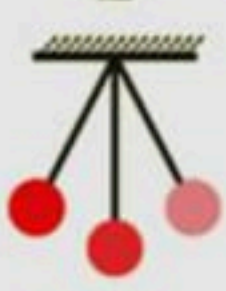
- Joints.
- The peripheral nervous system.



### Question four:

A - Explain ,how to obtain each of the following:

- Nitrogen from atmospheric air.
- Carbon dioxide from calcium carbonate powder.



B - Mention one function for the following :

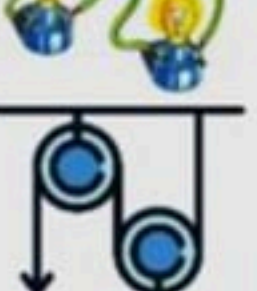
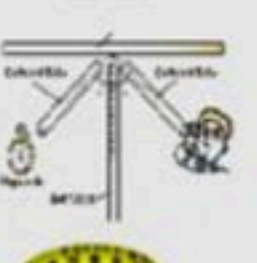
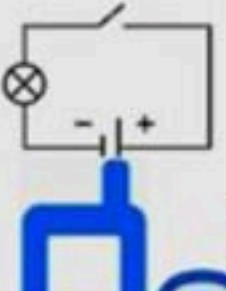
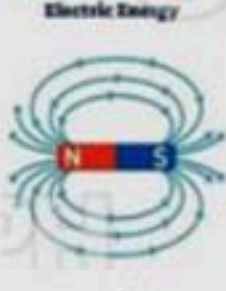
- Cerebellum.
- Clinical thermometer.
- Nitrogen gas.



### Question five :

Correct the following statements:

- Copper from substances which the heat cannot pass through it.
- The joints of the skull are from limited movements joints.
- As the weight of the planet increases the weight of body on it decreases.
- Oxygen gas not burn and not help burning.
- Carbon dioxide is from the component of gunpowder.
- When a glowing magnesium ribbon is placed in a job containing oxygen gas, a black substance is formed.







## Model Answer

## Answer Q1

1. Spinal nerves
2. 1 newton
3. Glass and wood
4. Oxygen
5. carbon

## Answer Q2

- a. to prevent mercury from going back fast to mercury bulb
- b. because Mercury remains liquid between  $-39^{\circ}\text{C}$  and  $357^{\circ}\text{C}$
- c. because oxygen is rarely dissolved in water
- d. because it is an inactive gas
- e. to avoid bone diseases such as osteomalacia and rickets

## Answer Q3

A-

- a. suffocation of all living organisms
- b. the two upper limbs will move in one direction only and cant move freely
- c. this causes osteoporosis and may cause death

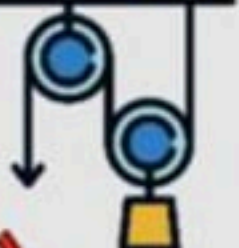
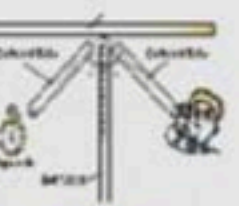
B-

- a. They allow movement between bones
- b. It delivers the sensory information and kinetic responses between central nervous system and all parts of the body

## Answer Q4

A-

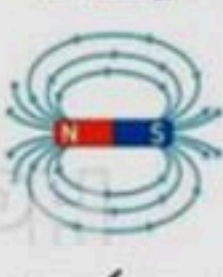
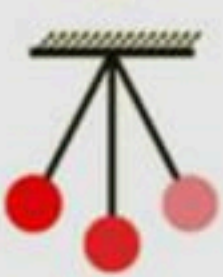
- a- By removing carbon dioxide gas from air by sodium or potassium hydroxide and removing oxygen gas by hot copper
- b- By adding dilute hydrochloric acid to calcium carbonate







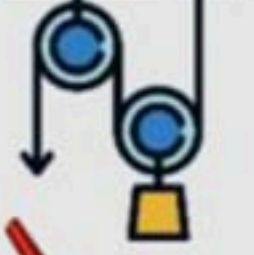
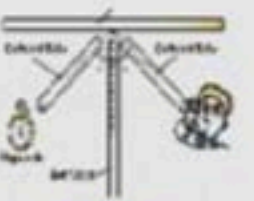
B-



- a- It keeps the balance of the body during movement.
- b- It is used to measure the temperature of the human body
- c-
- Nitrogen is recently used in filling car tires
  - Liquefied nitrogen is used in:
    - Treatment for skin tumours.
    - Cooling and preserving food products to be transferred easily.
  - Nitrogen is used in making ammonium nitrate and ammonia
  - It is used to store petroleum, liquified explosives and flammable materials → because nitrogen is an inactive element.
  - Nitrogen is used in small amounts to fill some types of lamps.
  - It is used in manufacturing of:
    - Gun powder.
    - Electronic devices.
    - Stainless steel.

**Answer Q5**

- Plastic
- Knee and elbow joints
- The weight of the body increases
- Oxygen doesn't burn but it helps in burning
- Nitrogen
- White substance is formed







## Exam (3)



Question one:



Choose the correct answer

1 If the weight of a body is 20 Newton, its mass equals:

- (a) 2 Kg.
- (b) 20 Kg.
- (c) 200 Kg.
- (d) 2000 Kg.

2 From the measuring units of weight:

- (a) Gram.
- (b) litre.
- (c) Newton.
- (d) Kilogram.

3 The maximum and minimum graduation of the clinical thermometer is between:

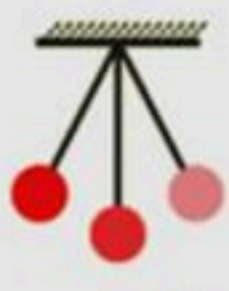
- (a) 35 : 42 celsius degrees.
- (b) 35 : 45 celsius degrees.
- (c) 32 : 42 celsius degrees.
- (d) 32 : 45 celsius degrees.

4 Carbon dioxide gas is used in:

- (a) Steel industry.
- (b) Gunpowder.
- (c) Ammonia industry.
- (d) Bread.

5 Which of the following is from ..... joints ?

- (a) Thigh.
- (b) Shoulder.
- (c) wrist.
- (d) knee.



Question two:

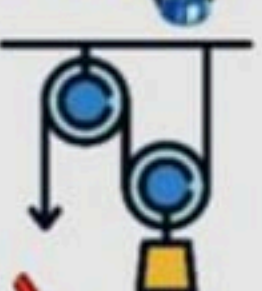
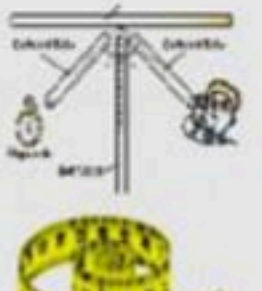
A - Mention one function for each of the following:

- (a) Spinal cord.
- (b) Spring scale.



B - Write the scientific term for the following:

- (a) A tool used to measure body weight.
- (b) A gas used in photosynthesis process.
- (c) Spontaneous response from the body to the different stimuli.
- (d) The amount of matter that the body contains.
- (e) The center of main control in human body.
- (f) A tool used to measure human body temperature.







## Question three:

Correct the following statements:

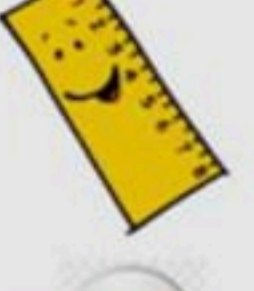
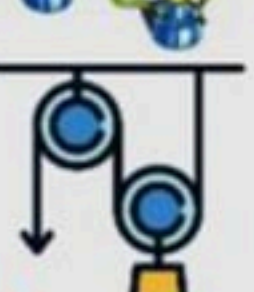
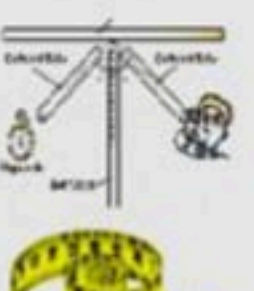
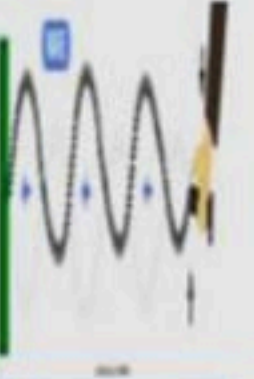
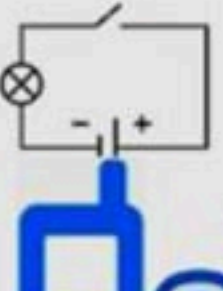
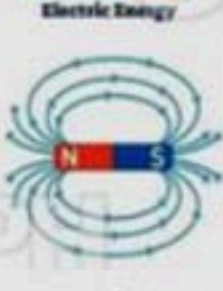
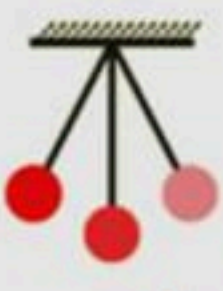
- (a) The weight is constant amount changes as the location changes.
- (b) Alcohol is the liquid that used in medical thermometer.
- (c) Carbon dioxide gas is essential to form rust.
- (d) A black precipitate is formed when carbon dioxide gas is passed in lime water.
- (e) Nitrogen gas is used in putting off fires.

## Question four:

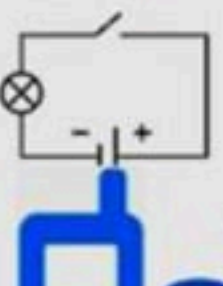
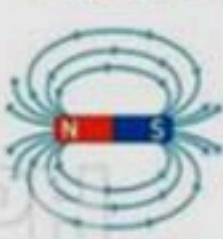
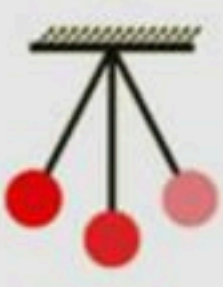
What would happen in the following cases:

- (a) All substances, that the man uses are good conductor of heat.
- (b) A nail wetted by water is exposed several days to humid air.
- (c) A man is exposing to noise continuously.

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### Model Answer

#### Answer Q1

- 1- 2 Kg
- 2- newton
- 3- 35 - 42 Celsius degrees
- 4- Bread
- 5- knee

#### Answer Q2

A-

- a- It delivers nerve messages from the body organs to the brain and vice versa and it is responsible for reflex action
- b- It is used to measure weight

B-

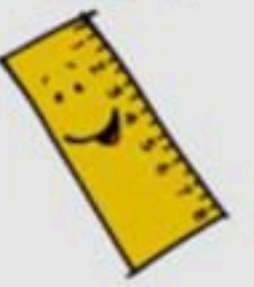
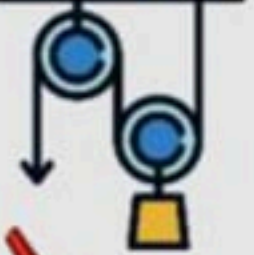
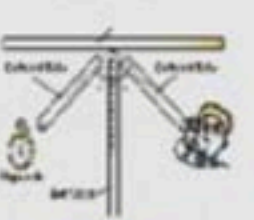
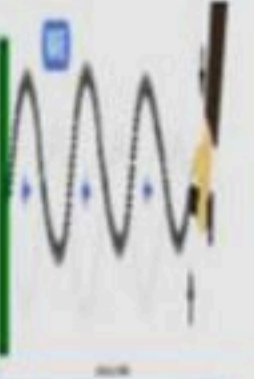
- a. Spring scale
- b. Carbon dioxide
- c. Reflex action
- d. The mass
- e. The brain
- f. Medical (clinical) thermometer

#### Answer Q3

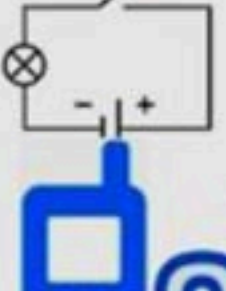
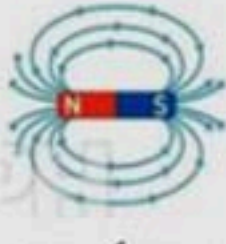
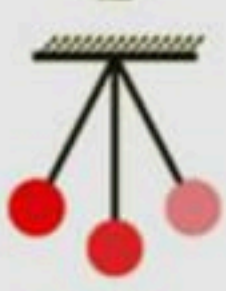
- a. The mass is a constant amount that doesn't change by changing place
- b. Mercury
- c. Oxygen gas
- d. White precipitate
- e. Carbon dioxide gas

#### Answer Q4

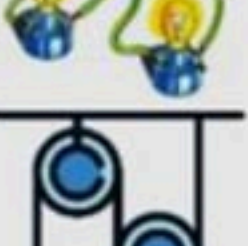
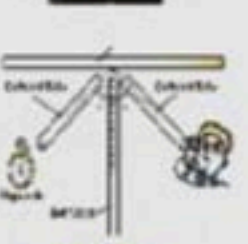
- a. We can't hold hot objects
- b. The nail will rust
- c. The nervous system will be exhausted







## Exam (4)



## First Question:

Complete the following statements:

- The mass is measured by using \_\_\_\_\_ and the weight is measured by \_\_\_\_\_ unit.
- From the examples of substances which are good conductors which are good conductors of heat \_\_\_\_\_ and \_\_\_\_\_.
- The clinical thermometer is graduated from \_\_\_\_\_ to \_\_\_\_\_.
- Oxygen is produced from \_\_\_\_\_ process and carbon dioxide produced from \_\_\_\_\_ process.
- The number of cranial nerves in human body is \_\_\_\_\_.
- The axial skeleton in the man consists of \_\_\_\_\_ and \_\_\_\_\_.

## Second Question: Choose the correct answer:

- The thoracic cage in the man consists of \_\_\_\_\_ Pairs of ribs.
  - 10.
  - 11.
  - 12.
  - 13.
- The part which is responsible for keeping human body balance is:
  - Two cerebral hemispheres.
  - Cerebellum.
  - Medulla oblongata.
  - Spinal cord.
- The gas used to fill some types of lamps is:
  - Oxygen.
  - Ozone.
  - Nitrogen.
  - Carbon dioxide.
- Photosynthesis process in the plant depend on the presence of:
  - oxygen.
  - nitrogen.
  - carbon dioxide.
  - ozone.
- The weight of the body is measured by \_\_\_\_\_ scale.
  - spring.
  - sensitive.
  - double pans.
  - all the previous.
- The best metal in conducting heat is:
  - Aluminum.
  - copper.
  - iron.
  - mercury.

## Third Question: Write The Scientific term:

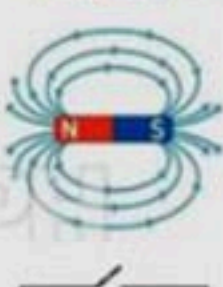
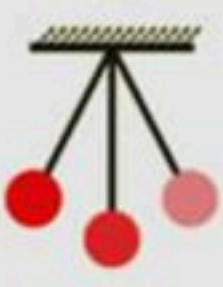
- The amount of matter that the body contains .
- Tools used to measure the temperature .
- A gas used to put off fires .
- A gas molecules consists of three atoms of oxygen .
- A part of nervous system responsible for reflex action .
- The location of bones touch and allow moving .

## Fourth Question: Give reasons for the following :

- The yeast is added to dough .
- Damage medulla oblongata lead to death .
- Aluminum is used in manufacturing of cooking pans .







## Model Answer

## Answer Q1

- Balance scale - Newton
- Copper - aluminium
- 35 - 42 Celsius degrees
- Photosynthesis - respiration or burning
- 12 pairs
- skull, backbone , ribcage

## Answer Q2

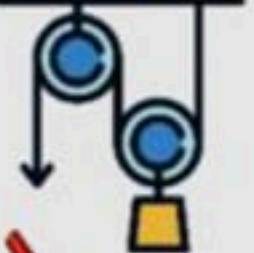
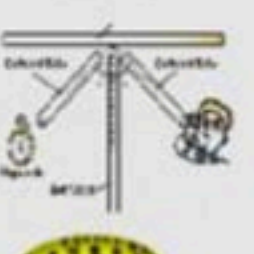
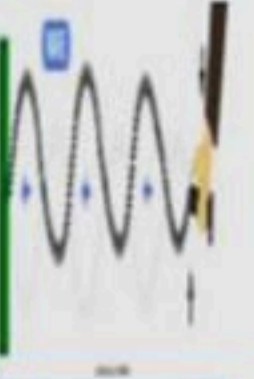
- 1- 12
- 2- Cerebellum
- 3- Nitrogen
- 4- Carbon dioxide
- 5- Spring
- 6- copper

## Answer Q3

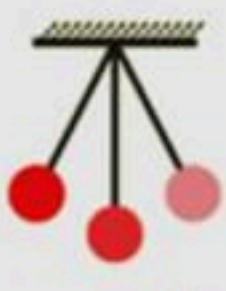
- The mass
- thermometer
- carbon dioxide gas
- ozone gas
- spinal cord
- joints

## Answer Q4

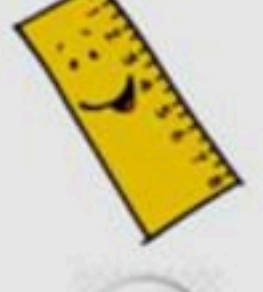
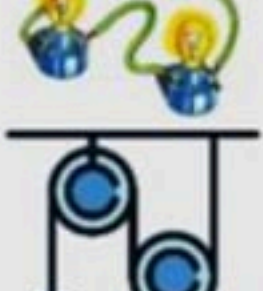
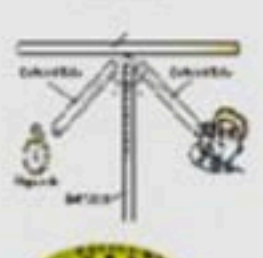
- To produce carbon dioxide gas which expands by heating that make the bread porous and tasty
- Because it is responsible for involuntary processes such as heart beats
- Because it is good conductors of heat







## Exam (5)



## First Question:

Complete the following statements :

- From the examples of substances which are bad conductor of heat ..... and .....
- The number of vertebrae of vertebral column is .....
- The number of cranial nerves is ..... and the number of spinal nerves is .....
- The holder of cooking pans is made of .....
- The mass is measured by ..... scale and the weight is measured by ..... scale.
- Oxygen is prepared from ..... in presence of .....

## Second Question: Choose the correct answer:

- The gas which turn lime water turbid is ..... gas.
  - Oxygen.
  - Nitrogen.
  - Carbon dioxide.
  - Ozone.
- Nitrogen is used in manufacture of:
  - Fire extinguisher.
  - Fertilizers.
  - Soft drink.
  - dry ice.
- Your weight on earth surface is 600 Newton so your weight on moon surface is ..... Newton:
  - 6
  - 60.
  - 100
  - 10
- The centers of thinking and memory lie in:
  - Medulla oblongata.
  - spinal cord.
  - cerebellum.
  - two cerebral hemispheres.
- From the example of freely moveable joints .....
  - Knee
  - thigh.
  - elbow
  - all the previous
- Hydrogen peroxide is used in preparation of:
  - Hydrogen.
  - Oxygen.
  - Nitrogen.
  - Carbon dioxide.

## Third Question: Write The Scientific term :

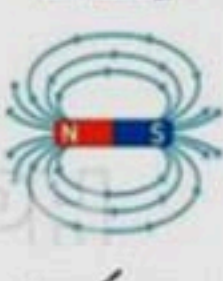
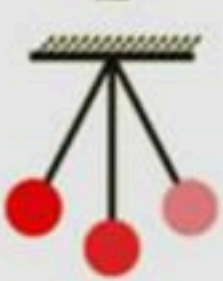
- The attraction force of the earth to the body.
- A flame used in cutting and welding metals.
- A gas used in ammonia industry.
- The center of the main control in human body.
- Ligaments ties muscles with bone.
- Areas between vertebrae of vertebral column separate and protect from friction between them.

## Fourth Question: Compare between each of the following:

- Mass and weight.
- Clinical thermometer and Celsius thermometer.
- Central nervous system and appendicular nervous system.







### Model Answer

#### Answer Q1

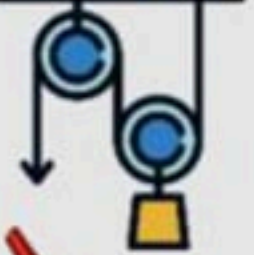
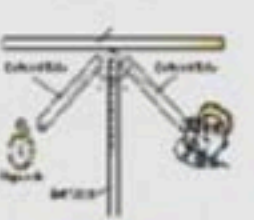
- a- plastic - glass
- b- 33 vertebrae
- c- 12 pairs - 31 pairs
- d- Plastic or wood
- e- Balance - spring
- f- hydrogen peroxide - manganese dioxide

#### Answer Q2

- 1- Carbon dioxide
- 2- fertilizers
- 3- 100
- 4- Two cerebral hemispheres
- 5- thigh
- 6- oxygen

#### Answer Q3

- a- The weight
- b- Oxyacetylene flame
- c- Nitrogen gas
- d- The brain
- e- tendons
- f- cartilages

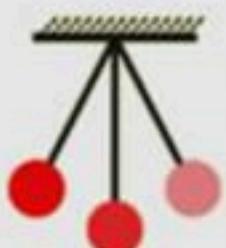




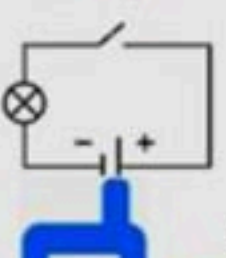
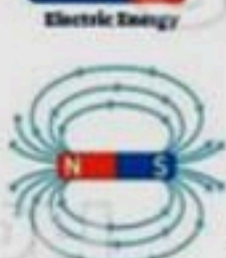


## Answer Q4

a-



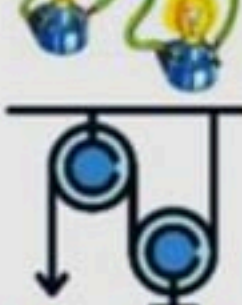
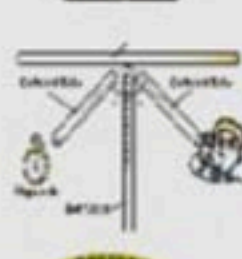
b-



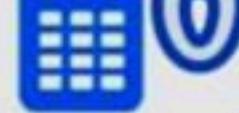
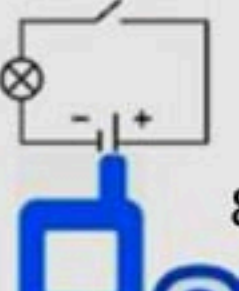
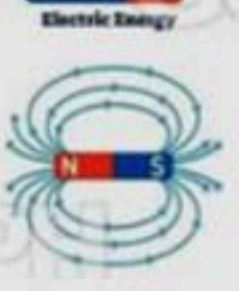
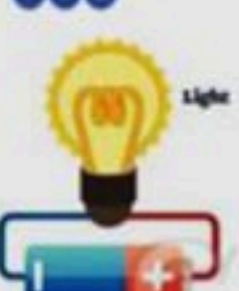
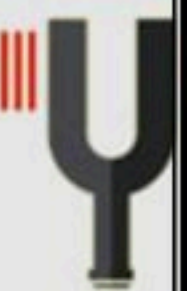
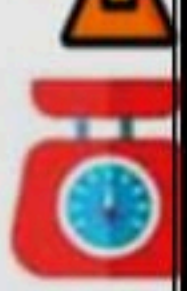
81

Point of comparison	Mass	Weight
Definition	The amount of matter in an object	The force by which a body is attracted to Earth
Unit of measurement	Gram or Kilogram	Newton
Device of measurement	A balance scale	A spring scale
Direction	Has no direction	It is towards the center of the Earth
Effect of different places	Constant (doesn't change with the change in place)	Changes from place to another

Points of comparison	Celsius thermometer	Medical thermometer
Composition	Transparent thick glass tube Capillary tube closed from one of its ends Mercury bulb that is filled with mercury and connected to the other end of the capillary tube	
Constriction	Absent	Present
Range of scale	From 0°C to 100°C	From 35°C to 42°C
The used liquid	Mercury	Mercury
Usage	It is used to measure the temperature of liquids	It is used to measure the temperature of the human body

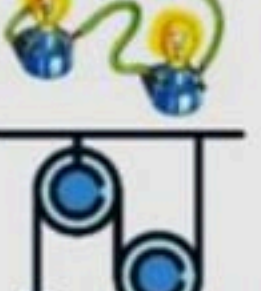
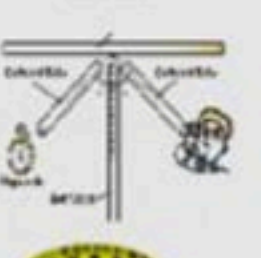






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# Final Revision



Points of comparison	Central Nervous System	Peripheral Nervous System
Structure	It consists of brain and spinal cord	It consists of cranial nerves and spinal nerves
Function	Brain directs and coordinates all the processes, ideas, behaviors and emotions. Spinal cord delivers the nerve messages from the body organs to the brain and vice versa. Spinal cord is responsible for reflex action.	It delivers the sensory information and the kinetic responses between the central nervous system and all the body parts.

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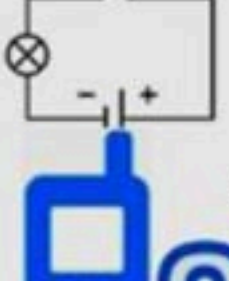
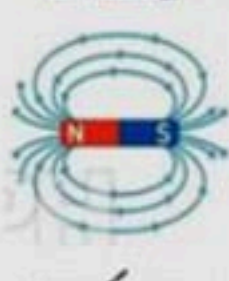
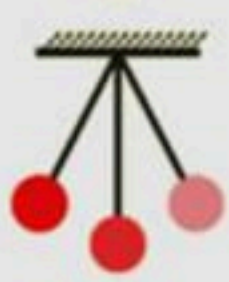
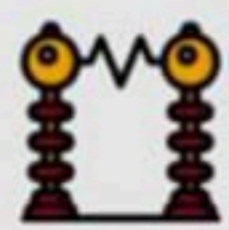


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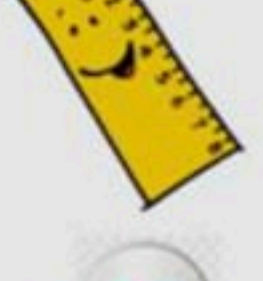
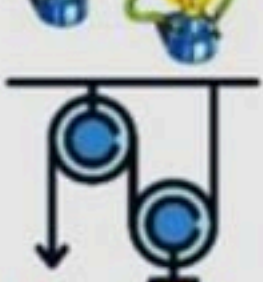
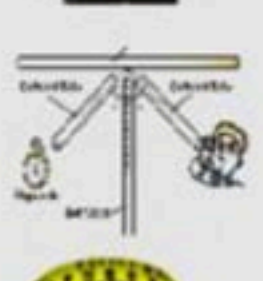


அறிவியல்





## Exam (6)



First question: Complete the following statements

- 1 The attraction force of earth for a body is called ..... and it increases as ..... increases .
- 2 The types of thermometers are ..... and .....
- 3 The sources of carbon dioxide gas are ..... and .....
- 4 The main center of the control in your body is ..... and it is found inside bony case called .....
- 5 The skeletal system in human consists of ..... and .....

Second question: write the scientific term

- 1 The amount of matter in an object .
- 2 The materials that let heat flow through .
- 3 The automatic response of the body when it exposes to outer stimuli.
- 4 The system which is responsible for the communication and coordination between human body systems .
- 5 The main source of preparing nitrogen gas .

Third question:

A- Rewrite the following sentences after correcting the wrong

- 1 The mass is measured by Newton which is equivalent to 1000 gram.
- 2 The spinal cord is responsible for the controlling the involuntary processes in our body .
- 3 Nitrogen peroxide gas decomposes to water and nitrogen in presence of manganese dioxide .

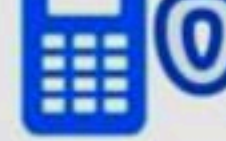
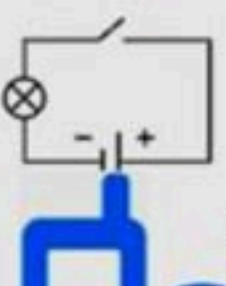
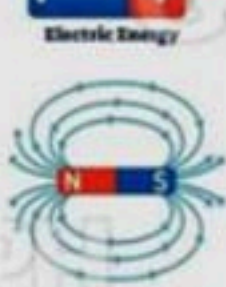
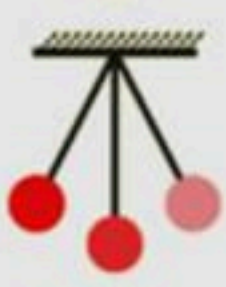
B- The mass of an object on earth's surface equals 60 kgm, calculate its weight on moon's surface .

Fourth question: Give reason for the following

- 1 Oxygen gas is collected by down displacement of water during its preparation in the laboratory.
- 2 We must not taking sleeping tablets otherwise if the doctor advised it.
- 3 Carbon dioxide gas is used in putting of fires .
- 4 The heart and lungs are surrounded by rib cage .







## Model Answer

## Answer Q1

- 1- weight - mass
- 2- medical (clinical) thermometer - Celsius thermometer
- 3- respiration - combustion (burning)
- 4- brain - skull
- 5- axial skeleton - appendicular skeleton

## Answer Q2

- 1- the mass
- 2- good conductors of heat (heat conductors)
- 3- reflex action
- 4- nervous system
- 5- the atmospheric air

## Answer Q3

A-

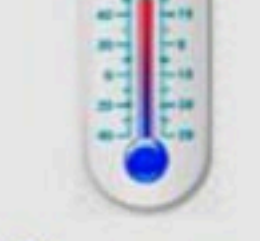
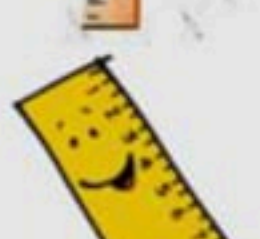
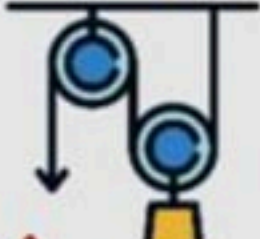
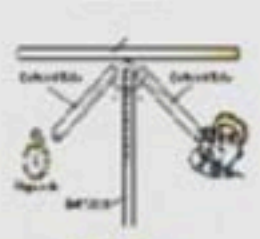
- a. The mass is measured in kilogram which is equivalent to 1000 Kg
- b. Medulla oblongata
- c. Hydrogen peroxide decomposes into oxygen and water in presence of manganese dioxide

B- Weight on Earth = mass x 10 = 600 Newton

Weight on the moon = weight on the Earth / 6 = 600/6 = 100 Newton

## Answer Q4

- 1- Because oxygen gas is rarely dissolved in water
- 2- To keep nervous system healthy
- 3- Because it doesn't burn and doesn't help in burning
- 4- To protect them.





الفترة المسماة  
الزمن ساعة ونصف

اختبار علوم لغات  
الصف السادس الابتدائي  
الفصل الدراسي الأول لعام ٢٠١٧/٢٠١٨

محافظة الإسكندرية  
إدارة العجى التعليمية  
توجيه العلوم لغات

**Answer all the following questions:**

**Q1 - (A) Complete the following sentences:**

1-A rapid combination between oxygen and element producing heat and light is.....while a slow combination between oxygen and element in the presence of moisture is.....

2-Axial skeleton in human body consists of.....and.....

3.....conducts heat faster than aluminum.

**(B) Mention the location of the following parts in the human body:**

1-The H-shaped gray matter.....

2-The sternum bone.....

**(C) State the importance of each of the following:**

1-Oxyacetelen Flame.....

2-Tendons.....

الاسم : .....

رقم الجلوس : .....

المدرسة : .....



**Q2-(A) Choose the correct answer:**

- 1-Liquidified nitrogen is used in treatment of.....  
( skin tumors - osteoporosis - influenza )
- 2-Reflex action occurs in.....  
( medulla oblongata - spinal cord - cerebrum )
- 3-Clear lime water is.....  
( calcium carbonate - calcium hydroxide - calcium sulphate )
- 4-.....join muscles with bones.  
( Tendons - Joints - Muscle fiber )
- 5-.....is the gravitational force by which a body attracts to the Earth.  
( Mass - Volume - Weight )
- 6-All these substances are bad conductor of heat except.....  
( wood - copper - plastic )

**(B) If an object's mass = 6 Kg on Earth. Calculate:**

1-Its weight on the Earth.

2-Its mass on the moon.

3-Its weight on the moon.

**Q3-(A) Put (✓) or (X) in front of the following statements:**

- 1-Legumes as clover benefit from nitrogen in the air. ( )
- 2-Carbon dioxide gas consists of two carbon atoms and one oxygen atom. ( )
- 3-The lower limbs are connected to the shoulder's bones. ( )
- 4-Exposing the body to sunlight has an important role in providing it with vitamin "D". ( )
- 5-The measuring unit of mass is Newton. ( )

.....meter is changing the weight of liquid by changing its ( )



(B) Compare between :

Points of comparison	Good conductors of heat	Bad conductors of heat
Definition	..... ..... ..... .....	..... ..... ..... .....
Examples	..... ..... ..... .....	..... ..... ..... .....

Q4-(A) Write the scientific term

1-It's the degree of hotness or coldness of the body.

(.....)

2-A gas that is used in making soft drinks and making bread porous.

(.....)

3-A chemical substance that increases the speed of the reaction without changing in its quantities and properties.

(.....)

4-The attraction force of the Earth to the body.

(.....)

(B) Give reason for:

1- There is a constriction above the mercury bulb in the medical thermometer.

(C) Look at the following figure , then answer :

1- The figure represents.....

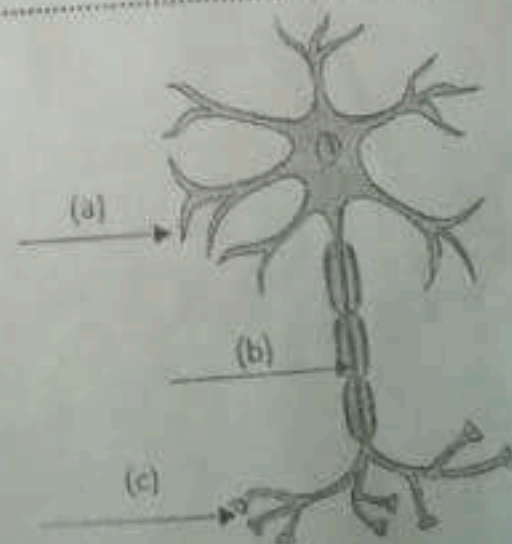
2- Label the figure's parts:

(a).....

(b).....

(c).....

3-The part (b) is covered with.....





**Cairo Governorate**  
**Basateen and Dar Elsalam Educational Administration**  
**Supervision of science Time: 1 1/2 hour**  
**Mid Year Exam 2018**  
**Six Primary**

Answer the following questions:

First question: (12 marks)

A. Complete the following sentences:(6 marks)

1. The central nervous system consists of .....and.....
2. Water consists of the union of an oxygen atom and two .....atoms.
3. Skull bones is considered from.....joints.
4. The measuring unit of mass is ..... while the measuring unit of weight is .....

B. Compare between Celsius thermometer and medical thermometer.(6 marks)

Point of comparison	medical	Celsius
<b>Graduated</b>	From..... To.....	From..... To.....
<b>Liquid</b>	.....	.....
<b>Uses</b>	.....	.....

Six primary

Second question(12 marks)

A. Mention the suitable scientific term:(9 marks)

1. A device used to measure the weight of the body.  
.....
2. The automatic response of the body to different stimuli.  
.....
3. A pungent smell gas evolved on adding water to the product of burning magnesium strip in nitrogen gas.  
.....
4. Substances that allow heat to flow through it.  
.....
5. A flame used in cutting and welding metals.  
.....
6. The building unit of the nervous system.  
.....

B. If the mass of object on the earth surface

kg. Calculate(3 marks)

1. It's mass on the moon.....
2. It's weight on earth.....
3. It's weight on the moon.....



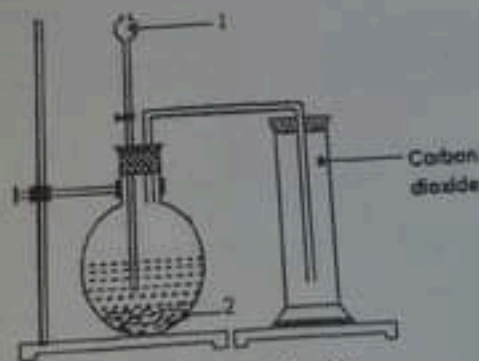
Third question (12 marks)

A. Put ✓ or (X) in front of the following statements: (6 marks)

- Oxygen gas is prepared by the decomposition of hydrogen peroxide in the presence of carbon dioxide ( )
- Cooking pots are made of aluminium ( )
- Muscles are joined to bones by cartilages ( )

Look at the opposite figure then write the missing numbers (6 marks)

- Number (1) is .....
- Number (2) is .....
- Write the symbol of carbon dioxide .....
- What happens when carbon dioxide gas passes through Clear lime water?



Preparation of carbon dioxide

5. What are the uses of this gas?

- .....
- .....

Question four (12 marks)

A. Choose the correct answer (6 marks)

- The centers of thinking and memory lie in .....  
a. Medulla oblongata b. spinal cord c. cerebrum
- An object whose weight is 40 newton on earth its mass equals ..... kg  
a. 400 b. 4 c. 40
- The human backbone consists of ..... vertebrae  
a. 33 b. 13 c. 34
- All the following are from the constituents of the axial skeleton except .....  
a. Backbone b. bones of limbs c. skull
- The percentage of oxygen gas in the atmosphere is .....  
a. 78 % b. 21 % c. 34
- Legumes contain ..... that help in obtaining nitrogen  
a. Algae b. Fungus c. Nodules

B. Give reasons for: (6 marks)

- The presence of constriction in medical thermometer at mercury level.  
.....
- Nitrogen gas is used in filling the tires of cars and aerobics.  
.....
- Heart and lungs are surrounded by rib cage.  
.....



## Answer the following questions

## The First Question ↴

A) Choose the correct answer from between brackets:

- 1- From the substance which are bad conductors of heat is .....  
[ iron - wood - copper ]
- 2- Which of the following gases have great percentage in atmospheric air? .....  
[ oxygen - nitrogen - carbon dioxide ]
- 3- The joints which allow movement in one direction only are ..... joints.  
[ immovable - slightly movable - freely movable ]
- 4- The operation of thermometer depends on the change of ..... with the change in temperature.  
[ gases volume - liquid volume - liquid mass ]
- 5- The ribcage in man consists of ..... pair of ribs.  
[ 10 - 11 - 12 ]
- 6- An object whose mass is ( 200 gm ) on earth's surface, so its weight equal .....  
[ 2 Newton - 20 Newton - 200 Newton ]

B) What happen when ..... ?

1- We get rid of soil bacteria.

2- Exhaled air passed through clear lime water.

## The Second Question ⇨ A) Complete the following statements:

- 1- The weight of the body on moon's surface = ..... of its weight on earth's surface.
- 2- Heat is a form of the forms of .....
- 3- Diver use ..... cylinder during diving under water.
- 4- The centers of thinking and memory lie in .....
- 5- The mass is measured by ..... balance.
- 6- Nitrogen is used in the manufacture of ..... which doesn't ru

B) Compare between good conductors and bad conductors of heat:

Point of comparison	Good conductors of heat	Bad conductors of heat
Definition	..... .....	..... .....



### The Third Question ⇒ A) Write scientific term:

- 1- An indicator helps us to express the state of the body from point of hotness or coldness. [ \_\_\_\_\_ ]
- 2- Long strips that fix muscles on bones. [ \_\_\_\_\_ ]
- 3- The building unit of nervous system. [ \_\_\_\_\_ ]
- 4- A force with which a body attracted to the earth. [ \_\_\_\_\_ ]
- 5- A gas that its molecule is composed of three oxygen atoms. [ \_\_\_\_\_ ]
- 6- An instrument used for measuring the temperature. [ \_\_\_\_\_ ]

### B) Give reason:

- 1- Damage of the medulla oblongata causes death.  
[ \_\_\_\_\_ ]
- 2- Carbon dioxide is used in extinguishing some fires.  
[ \_\_\_\_\_ ]

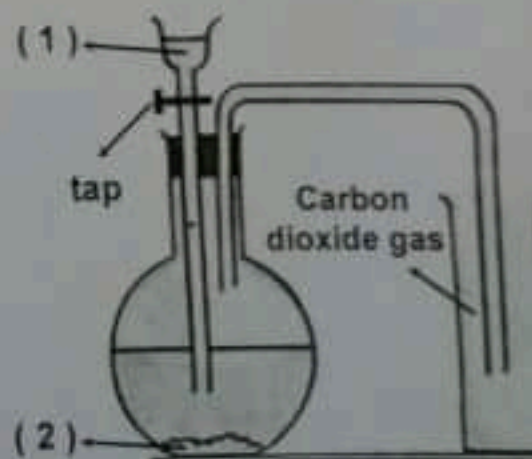
### The Fourth Question ⇓

#### A) Correct the underline word in the following statement:

- 1- Weight is constant value and is not affected by changing the place. [ \_\_\_\_\_ ]
- 2- The scale of the medical thermometer starts from  $35^{\circ}\text{C}$  to 100 $^{\circ}\text{C}$ . [ \_\_\_\_\_ ]
- 3- The axon of the nerve cell is surrounded by a gelatinous layer. [ \_\_\_\_\_ ]
- 4- The cerebellum lies at the back area of the brain above the two cerebral hemispheres. [ \_\_\_\_\_ ]
- 5- Hydrogen peroxide remain without change in quantity or properties during the preparation of oxygen gas. [ \_\_\_\_\_ ]
- 6- The liquid that is used in making the thermometers is water. [ \_\_\_\_\_ ]

#### B) In the opposite figure answer the following:

- (1) is \_\_\_\_\_  
(2) is \_\_\_\_\_





CAIRO GOVERNORATE  
CAIRO EDUCATIONAL DIRECTORATE  
SIXTH GRADE PRIMARY EXAMINATION - FIRST TERM, 2016 - 2017  
SCIENCE

امتحان الصف السادس الابتدائي، عام: الفصل الدراسي الأول 2016 - 2017  
العلوم بالإنجليزية، الأسئلة في أربع صفحات على وجهي الورقة، الزمن: ساعة ونصف

Answer the following questions in this Answer paper

Question (1):

A-Complete the following statements:

- The measuring unit of weight is newton while the measuring unit of mass is gm - kg - ton
- Copper is from good conductors of heat.
- Carbon dioxide molecule consists of one carbon atom linked with two oxygen atoms.
- Nitrogen combines with a lighted magnesium composing ..... Substance.
- The rib cage consists of ..... pairs of ribs.

B- Give reasons for:

- Clear limewater becomes turbid when carbon dioxide passes in it.
- Oxygen cylinders are used during climbing mountains.

(بقية الأسئلة في الصفحة الثانية)

امتحان الصف السادس الابتدائي، عام: الفصل الدراسي الأول 2016 - 2017

رقم المراقبة

Question (2):

A- Write the scientific term for the following statements

- The building unit of the nervous system. (.....)
- The amount of matter in an object. (.....)
- The main control center in human body. (.....)
- Gas is used in respiration and combustion processes (.....)
- Organ in the central nervous system responsible for the reflex action. (.....)

B- mention one function for:

- The spring scale:

- Celsius thermometer:

- Ozone layer:

(بقية الأسئلة في الصفحة الثالثة)



Question(3):

A- Put ( ✓ ) in front of correct statements and ( x ) in front of incorrect one:-

- 1- Oxygen gas represents 78% of the volume of the atmosphere. ( )
- 2- Cooking pots are made of plastic. ( )
- 3- Nitrogen gas is called azote which means "life gas". ( )
- 4- Air is from good conductors of heat. ( )
- 5- Oxy-acetylene flame used in cutting and welding metal ( )
- 6- Cerebellum maintains the balance of the body during movement. ( )

B- What happens in the following cases:-

- 1- Continuous exposure the man to noisy  
.....
- 2- Increase of carbon dioxide percentage in the atmosphere.  
.....

( بقية الأسئلة في الصفحة الرابعة )

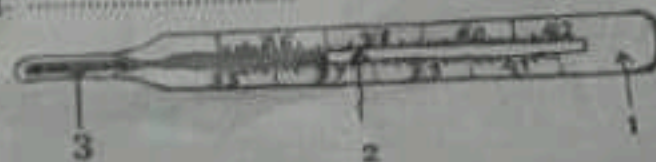
Question(4):

A- Choose the correct answer between the brackets:

- 1- The lower fixed point in the thermometer scale represents the .....freezing point. [ liquids - mercury - water ]
- 2- Backbone consists of .... bony vertebrae. [ 12 - 21 - 33 ]
- 3- From the freely movable joints is .....  
[ shoulder - elbow - knee ]
- 4- A weight of body is 2 newton so its mass is equal to ...  
[ 0.2 gm - 20 gm - 200gm ]
- 5- Hydrogen peroxide dissociates in the presence of manganese dioxide (as a catalyst) into .....  
[ water - oxygen gas - water & oxygen gas ]

B- Notice the following figure of medical thermometer then label it:

1. ....
2. ....
3. ....



( انظروا الأسئلة مع صفتنا لكم بالتفصيل )



**Q-1-A) Complete the following:-**

- 1- The outer surface of the hemispheres is called ..... and its colour is.....
- 2- Oxygen gas of the atmosphere is consumed during.....and  
..... processes.
- 3- The number of spinal nerves is .....pairs while the number of cranial  
nerves is ..... pairs of nerves.
- 4- From liquids we use .....to sterilize the medical thermometer  
and use .....to make it.

**B) What happens if ?**

- 1- The neurons lose their dendrites.  
.....
- 2- Nitrogen reacts with oxygen during lightning.  
.....

**Q-2-A) Write the scientific term:-**

- 1- Materials that allow heat to flow through. (.....)
- 2- Spontaneous response from the body to different stimuli. (.....)
- 3- The force with which the body is attracted to the earth. (.....)
- 4- A flame is used in cutting and welding metals (.....)
- 5- It consists of 33 vertebrae. (.....)

**B) Put (✓) or (X):**

- 1- The cerebellum is responsible for the reflex action (.....)
- 2- Heat transfers from a cold object to a hot object. (.....)

**Q-3-A) Cross the odd word :-**

- 1- Wrist – Shoulder – elbow – thigh. (.....)
- 2- Kilo gram – Newton – gram – ton. (.....)
- 3- Hummers bone – fore arm bonse – femur bone – hand bones. (.....)



**B)- Give reason:-**

1- The weight of a body in a flying balloon less than its weight on Earth.

2- In clinical thermometer, there is a constriction.

3- Damage of medulla oblongata cause death.

**Q- 4-A) Correct the wrong words:-**

1- The reason of object's falling downward earth is mass. (.....)

2-  $\text{CO}_2$  is prepared in lab from Calcium carbonate and hydrogen peroxide. (.....)

3- All non metal are bad conductors of electricity. (.....)

**B) - If an object's weight on moon is 70 Newton Calculate**

1- Its weight on Earth. ....

2- Its mass on moon. ....

Mention Why the mass has that value ?.....

Q	Mark	Marker	Reviser
1			
2			
3			
4			
Total			

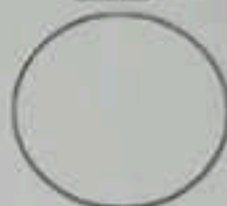


جمهورية مصر العربية	محافظة الإسكندرية	مدينة التربية والتعليم
امتحان ( الدور الأول ) لنصف السادس الابتدائي ( العام ) للعام الدراسي ( ١٤٣٨ - ١٤٣٩ م )		
المادة : العلوم بالإنجليزية		الزمن : ساعة ونصف

أسئلة هذه المادة في ثلاث ورقات

1

الدرجة



رقم السؤال	الدرجة	المصحح	المراجع
1			
2			
3			
4			
المجموع			

Answer the following questions

Question one:

A) Complete the following statements:

- (1) Arab scientists established ...observatories... on the high places as mountains to monitor.....stars and planets....
- (2) The lever save effort when its force arm ...longer... than the resistance arm, and the force is ...less... than the resistance.
- (3) A little amount of ...Helium... is added to Argon gas inside the fluorescent lamp, and the inner surface is covered with ....phosphoric material.
- (4) From the bad conductors of electricity ....wood..... and .....plastic.....

B) What is the importance of the following:

- (1) The thin walls of the root hairs.  
.....to allow penetration water and salts through it.....
- (2) The argon gas inside the glass bulb of the electric lamp.  
.....increase life time of filament  
.....protect filament from burning.....

بقية الأسئلة في الورقة الثانية

✂

✂

الدرجة : .....

الاسم : .....

رقم الجلوس : .....



**Question two:**

**A) Choose the right answer:**

- (1) The total lunar eclipse happens when .....
  - a) the whole moon in the shadow area of the earth.
  - b) part of the moon enters the shadow of the earth.
  - c) the whole moon in the semi-shaded area of the earth.
  - d) the moon lies between the sun and the earth.
- (2) Water is not used in putting off the fires of electricity, because.....
  - a) water decreases the fire
  - b) water contains minerals that disconnect electric current.
  - c) impure water is a bad conductor of electricity.
  - d) impure water is a good conductor of electricity.
- (3) The following planets have gaseous nature except .....
  - a) Venus
  - b) Jupiter
  - c) Saturn
  - d) Uranus
- (4) The root hair secretes ..... substance that helps attracting water.
  - a) solid
  - b) viscous
  - c) soft
  - d) smooth

**B) What happens in the following with mentioning the reason?:**

- (1) A lamp of a group of lamps connected in electric circuit in series was burnt.  
 ..... *all lamps turn off* .....  
 The reason: ..... *bec there is one route for electric current* .....
- (2) Looking at the sun during its eclipse without special glasses.  
 ..... *harm retina of eye causing blindness* .....  
 The reason: ..... *outer outer corona produce ultra violet rays, infra red rays, which affect retina of eye causing blindness* .....

**Question three:**

**A) Give reasons for the following:**

- (1) The filament of the electric lamp is made up of tungsten.  
 ..... *bec it was high melting point* .....
- (2) The concentration of the solution inside the sap vacuole of the plant is higher than the concentration of the soil solution.  
 ..... *bec it has more water less salts and to absorb water from high conc* .....
- (3) The crowbar is a lever of the first type.  
 ..... *bec it has fulcrum between effort from and Resistance* .....
- (4) The electric current continue passing through a closed electric circuit if the switch is replaced by a piece of metal.  
 ..... *bec metal is good conductor of electricity* .....



3. اسأل عن امتحان: الدور الأول: النصف السادس الابتدائي: العام: مادة العلوم والاختصاص: العام الدراسي: 1443هـ  
 Q1 Look at the figure that represents the phenomenon of the Solar eclipse then, answer the following.



- (1) When does this phenomenon happen? ... Solar eclipse ...  
 (2) The region number ① is known as ... umbra ... and the type of eclipse is ... total solar eclipse ...  
 (3) The region number ② is known as ... penumbra ... and the type of eclipse is ... partial solar eclipse ...

#### Question four:

A) Write the scientific term for the following:

- 1) Groups of millions stars differ in their shapes. ... Galaxy ...  
 2) A type of levers at which the force lies between the resistance and the fulcrum. ... 3rd class ...  
 3) Two cells surrounding the stoma in the plant leaf. ... 2 Guard Cells ...  
 4) A type of telescopes in which the mirrors are used to converge light. ... C. Hubble telescope ...

B) Correct the underlined parts in the following:

- 1) The nutcrackers is a lever of the first type.  
 (... 2nd ...) ...  
 2) The human body is a good conductor of electricity because it contains gasses.  
 (... water ...) ...

C) A third class lever of 200 Newton force and its arm is 5 cm, affect on a resistance of 100 Newton, calculate the length of the resistance arm that makes the lever balanced.

$$F \times I_1 = R \times I_2$$

$$200 \times 5 = 100 \times \text{resistance arm}$$

$$R \text{ arm} = \frac{200 \times 5}{100} = 10 \text{ cm}$$



أمن الأمانة: ساعة و نصف  
المادة : علوم لغات

امتحان نهاية الفصل الدراسي الأول للصف السادس الابتدائي  
للعام الدراسي 2020/2019

ادارة العجسي التعليمية  
توجيه العلوم لغات

**Q.1 : A) Complete:**

- 1) The measurement unit of mass is ..... While the measurement tool of weight is .....
- 2) The neuron consists of two main parts ..... and .....
- 3) Temperature of human body is measured by ..... thermometer while the temperature of liquid is measured by ..... thermometer.

**B: Give reasons for :**

1) Ozone is very important in nature.

2) Mercury is used in making thermometer.

**C: Compare between the axial skeleton and the appendicular skelton**

Point of comparison	Axial skeleton	Appendicular skeleton
Structure	.....	.....
	.....	.....

**Q:2 A) Write scientific term :**

- 1) Linked to the brain through the spinal cord and is responsible for involuntary action. ( )
- 2) A flame used in cutting and welding metals ( )
- 3) The amount of matter that the body contains ( )
- 4) The location at which bones meet each other ( )

**B: An object whose mass on the Earth is equal 6 kg calculate :**

1) Its weight on the Earth

2) Its weight on the moon

..... اسم التلميذ/

..... التاريخ/ ..... المدرسة /

..... رقم الجلوس/